

2FW  
CASE D0323 NP

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Stephen C. D'Amico  
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11-8-05  
Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF

RAMANATHAN ET AL.

APPLICATION NO: 10/800,249

FILED: MARCH 12, 2004

FOR: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN G-PROTEIN  
COUPLED RECEPTOR VARIANT OF HM74, HGPRBMY74

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Applicants believe this paper is being filed before the mailing date of a first Office Action on the merits, and so under 37 C.F.R. §1.97(b)(3) no fees are required. If a fee is deemed to be required, the Commissioner is hereby authorized to charge such fee to Deposit Account No. 19-3880.

In accordance with 37 C.F.R. §1.56, applicants wish to call the Examiner's attention to the references cited on the attached form(s) PTO-1449.

Copies of these references are enclosed herewith.

The PTO did not receive the following  
listed item(s). Box three of three

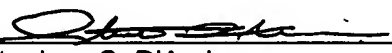
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Pursuant to the OG Notice of August 5, 2003 for U.S. national applications filed after June 30, 2003, the requirement for submitting a copy of each cited U.S. patent and each cited U.S. patent application publication is waived, copies of the U.S. patent and U.S. patent publications are not submitted. Copies of foreign patent documents and non-patent literature, if cited, are enclosed.

The Examiner is requested to consider the foregoing information in relation to this application and indicate that each reference was considered by returning a copy of the initialed PTO 1449 form(s).

Respectfully submitted,

Bristol-Myers Squibb Company  
Patent Department  
P.O. Box 4000  
Princeton, NJ 08543-4000  
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\_\_\_\_\_  
Stephen C. D'Amico  
Agent for Applicants  
Reg. No. 46,652

Date: 11-8-05

FORM PTO-1449  
(REV. 7-85)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

## INFORMATION DISCLOSURE CITATION

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## U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	2003/0105292 A1	6/5/03	Liaw et al.			
	AB	2003/0078218 A1	4/24/03	Jarai, et al.			
	AC	2003/0068382 A1	4/10/03	Samuel Rose			
	AD	2003/0166148 A1	9/4/03	Chen, et al.			
	AE	2004/0038885 A1	2/26/04	Jarai, et al.			
	AF	2004/0180332 A1	9/16/04	Douglas M. Powell			
	AG	2004/0214837 A1	10/28/04	Griffith, et al.			
	AH	2004/0214838 A1	10/28/04	Carpino, et al.			
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	AK	2004/0224962 A1	11/11/04	Coe, et al.			
	AL	2004/0229844 A1	11/18/04	Cheng, et al.			
	AM	2004/0242641 A1	12/2/04	Buckley, et al.			
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	AO	2004/0248881 A1	12/9/04	Carpino, et al.			
	AP	2005/0004178 A1	1/6/05	Unett, et al.			
	AQ	2005/0020616 A1	1/27/05	Coe, et al.			
	AR	2005/0020830 A1	1/27/05	Allen, et al.			
	AS	2005/0058652 A1	3/17/05	Mayers, et al.			
	AT	2005/0059153 A1	3/17/05	George, et al.			
	AU	2005/0084872 A1	4/21/05	Lum, et al.			
	AV	2005/0095607 A1	5/5/05	Erlander, et al.			
	AW	2005/0101592 A1	5/12/05	Carpino, et al.			
	AX	2005/0154029 A1	7/14/05	Unett, et al.			
	AY	2005/0159597 A1	7/21/05	Ji, et al.			
	AAA	2005/0182063 A1	8/18/05	Daniel Yohannes			
	ABB	2005/0187280 A1	8/25/05	Minnich, et al.			
	ACC	2005/0187263 A1	8/25/05	Minnich, et al.			

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**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	2AA	6,833,447 B1	12/21/04	Goldman, et al.			
	2AB	6,555,339 B1	4/29/03	Liaw, et al.			
	2AC	6,902,902 B2	6/7/05	Unett, et al.			
	2AD						

**FOREIGN PATENT DOCUMENTS**

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	2AE	DE102 51 244 A1	5/19/04	Germany				
	2AF	JP2004198202A	7/15/04	Japan				
	2AG	JP2004135582A	5/13/05	Japan				
	2AH	JP200449004A	2/19/04	Japan				
	2AI	JP200465120A	3/4/04	Japan			<input type="checkbox"/>	<input type="checkbox"/>
	2AJ	JP2005198640A	7/28/05	Japan			<input type="checkbox"/>	<input type="checkbox"/>
	2AK	WO03/042661A2	5/22/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	2AL	WO03/061365A2	7/31/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	2AM	WO03/071272A1	8/28/03	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	2AN	WO2004/110375A2	12/23/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	2AO	WO2004/110453A1	12/23/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	2AP	WO2004/111197A2	12/23/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	2AR	WO2004/089303A2	10/21/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	2AX	WO2004/033431 A2	4/22/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>

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	3AA	WO2004/041170 A2	5/21/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AB	WO2004/040000 A2	5/13/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AC	WO2005/007655 A1	1/27/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AD	WO2005/011677 A1	2/10/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AE	WO2005/007630 A2	1/27/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	3AI	WO2005/037832 A2	4/28/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AJ	WO2005/041878 A2	5/12/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	3AL	WO2005/075482 A1	8/18/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AM	WO2005/076939 A2	8/25/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	3AR	WO2005/044822 A1	5/19/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	3AT	WO2005/063767	7/14/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	3AU	WO2005/066129 A2	7/21/05	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	3AZ	WO2004/085433 A2	10/7/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	4AA	WO2004/094417 A1	11/4/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AB	WO2004/083818 A2	9/30/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AC	WO2004/080968 A1	9/23/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AD	WO2004/080535 A2	9/23/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AE	WO2004/041274 A1	5/21/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
	4AF	WO2004/076453 A1	9/10/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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	4AI	WO2004/103370 A1	12/2/04	PCT			<input type="checkbox"/>	<input type="checkbox"/>
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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

5AA	NCBI Entrez Accession No. AAP64864 (gi:31700351), Liaw, et al., June 12, 2003
5AB	NCBI Entrez Accession No. AAW94654 (gi:59741964), Goldman, et al., February 14, 2005
5AC	NCBI Entrez Accession No. AAY77240 (gi:67620437), Unett, et al., June 13, 2005
5AD	NCBI Entrez Accession No. AAY77254 (gi:67620453), Unett, et al., June 13, 2005
5AE	NCBI Entrez Accession No. BAC06094 (gi:21929017), Suwa, et al., July 23, 2002
5AF	NCBI Entrez Accession No. BC027965 (gi:20379752), Strausberg, et al., March 8, 2005
5AG	NCBI Entrez Accession No. BC063461 (gi:39645840), Strausberg, et al., April 1, 2004
5AH	NCBI Entrez Accession No. NW_114987 (gi:52320775), Genome Sequencing Consortium, November 9, 2004
5AI	NCBI Entrez Accession No. XP_509519 (gi:55639357), NCBI's Annotation Process, November 9, 2004
5AJ	Swiss-Prot Accession No. O00270, Release 36, July 1998
5AK	Swiss-Prot Accession No. P49019, Release 33, February 1996
5AL	Swiss-Prot Accession No. Q9BXC0, Release 42, October 2003
5AM	Swiss-Prot Accession No. Q9EP66, Release 16, March 2001-
5AN	Swiss-Prot Accession No. Q9JLS1, Release 15, October 2000

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

6AA	The I.M.A.G.E. Consortium, I.M.A.G.E. Clone ID: 5176597, ATCC No. 7259808
6AB	The I.M.A.G.E. Consortium, I.M.A.G.E. Clone ID: 5222688, ATCC No. 8605649
6AC	Axelsson, et al., "Male-Biased Mutation Rate and Divergence in Autosomal, Z-Linked and W-Linked Introns of Chicken and Turkey", Molec. Biol. Evol., Vol. 21(8), pp. 1538-1547 (2004)
6AD	Barrantes, F.J., "Structural basis for lipid modulation of nicotinic acetylcholine receptor function", Brain Research Reviews, Vol. 47, pp. 71-95 (2004)
6AE	Benyo, et al., "Mechanism of Nicotinic Acid-Induced Flushing In Mice", Archives of Pharmacology, Vol. 371, No. Suppl. 1, pp. R9 (2005)
6AF	Carlson, L.A., "Nicotinic acid: the broad-spectrum lipid drug. A 50 <sup>th</sup> anniversary review", J. Internal Med., Vol. 258, pp. 94-114 (2005)
6AG	daCosta, et al., "Phosphatidic Acid and Phosphatidylserine Have Distinct Structural and Functional Interactions with the Nicotinic Acetylcholine Receptor", J. Biol. Chem., Vol. 279(15), pp. 14967-14974 (2004)
6AH	Delibas, et al., "Effect of Nicotine on Hippocampal Nicotinic Acetylcholine $\alpha 7$ Receptor and NMDA Receptor Subunits 2A and 2B Expression in Young and Old Rats", Intern. J. Neuroscience, Vol. 115, pp. 1151-1163 (2005)
6AI	dePlanque, et al., "The $\alpha M1$ segment of the nicotine acetylcholine receptor exhibits conformational flexibility in a membrane environment", Biochimica Biophysica Acta, Vol. 1665, pp. 40-47 (2004)
6AJ	Fang, et al., "Single Channel Fluctuations of Self-Assembled Oligomeric M2 Peptide Sequences Incorporated in a Synthetic Lipid Bilayer", Science Engin., Vol. 90, pp. 691 (2004)
6AK	Gottschalk, et al., "Identification and characterization of novel nicotinic receptor-associated proteins in <i>Caenorhabditis elegans</i> ", EMBO J., Vol. 24(14), pp. 2566-2578 (2005)
6AL	Karpe, et al., "The nicotinic acid receptor--a new mechanism for an old drug", The Lancet, Vol. 363, pp. 1892-1894 (2004)
6AM	Keller, et al., "Performance of $\alpha 7$ nicotinic receptor null mutants is impaired in appetitive learning measured in a signaled nose poke task", Behavioural Brain Res., Vol. 162, pp. 143-152 (2005)
6AN	Kishimoto, et al., "Studies on the Phosphorylation of Myelin Basic Protein by Protein Kinase C and Adenosine 3':5'-Monophosphate-dependent Protein Kinase", J. Biol. Chem., Vol. 260(23), pp. 12492-12499 (1985)

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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

7AA	Klein, et al., "Inhibition of Nicotinic Acetylcholine Receptors by Apolipoprotein E-Derived Peptides in Rat Hippocampal Slices", <i>Neurosci.</i> , Vol. 127, pp. 563-567 (2004)
7AB	Kostenis, et al., "A Highly Conserved Glycine within Linker I and the Extreme C Terminus of G Protein $\alpha$ Subunits Interact Cooperatively in Switching G Protein-Coupled Receptor-to-Effector Specificity", <i>J. Pharm. Exper. Therapeutics</i> , Vol. 313(1), pp. 78-87 (2005)
7AC	Kottwitz, et al., "Intracellular domains of the $\delta$ -subunits of <i>Torpedo</i> and rat acetylcholine receptors--expression, purification, and characterization", <i>Protein Exp. Purification</i> , Vol. 38, pp. 237-247 (2004)
7AD	Lee, et al., "Discovery and mapping of ten novel G protein-coupled receptor genes", <i>Gene</i> , Vol. 275, pp. 83-91 (2001)
7AE	Meyers, et al., "Niacin therapy in atherosclerosis", <i>Curr. Opin. Lipidology</i> , Vol. 15, pp. 659-665 (2004)
7AF	Pediconi, et al., "Metabolic Cholesterol Depletion Hinders Cell-Surface Trafficking of the Nicotinic Acetylcholine Receptor", <i>Neuroscience</i> , Vol. 128, pp. 239-249 (2004)
7AG	Pike, et al., "Identification of a nicotinic acid receptor: Is this the molecular target for the oldest lipid-lowering drug?", <i>Curr. Opin. Invest. Drugs</i> , Vol. 5(3), pp. 271-275 (2004)
7AH	Pratt, et al., "Nucleus Accumbens Acetylcholine Regulates Appetitive Learning and Motivation for Food via Activation of Muscarinic Receptors", <i>Behav. Neuroscience</i> , Vol. 118(4), pp. 730-739 (2004)
7AI	Qi, et al., "Oxidative stress induced by beta-amyloid peptide <sub>1-42</sub> is involved in the altered composition of cellular membrane lipids and the decreased expression of nicotinic receptors in human SH-SY5Y neuroblastoma cells", <i>Neurochem. Internat.</i> , Vol. 46, pp. 613-621 (2005)
7AJ	Remmele, et al., "Scan-Rate-Dependent Melting Transitions of Interleukin-1 Receptor (Type II): Elucidation of Meaningful Thermodynamic and Kinetic Parameters of Aggregation Acquired from DSC Simulations", <i>J. Am. Chem. Soc.</i> , Vol. 127, pp. 8328-8339 (2005)
7AK	Schimenti, John C., "ORFless, intronless, and mutant transcription units in the mouse <i>t</i> complex responder ( <i>Tcr</i> ) locus", <i>Mammalian Genome</i> , Vol. 10, pp. 969-976 (1999)
7AL	Slotkin, et al., "Effects of Prenatal Nicotine Exposure on Primate Brain Development and Attempted Amelioration with Supplemental Choline or Vitamin C: Neurotransmitter Receptors, Cell Signaling and Cell Development Biomarkers in Fetal Brain Regions of Rhesus Monkeys", <i>Neuropsychopharmacology</i> , Vol. 30, pp. 129-144 (2005)
7AM	Tunaru, et al., "Site Directed Mutagenesis of the Nicotinic Acid Receptor (HM74A) Reveals a Role of Extracellular Loop 1 and 2 in Ligand Binding and Specificity", Vol. 371, No. Suppl. 1, pp. R17 (2005), 46th Spring Meeting of the Deutsche-Gesellschaft-fur- Experimentelle-und-Klinische-Pharmakologie-und-Toxikologie. Mainz, GERMANY. March 15 -17, 2005.
7AN	Tsai, et al., "Down-regulating effect of nicotine on connexin43 gap junctions in human umbilical vein endothelial cells is attenuated by statins", <i>Eur. J. Cell Biol.</i> , Vol. 82, pp. 589-595 (2004)

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**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent pages, Etc.)

8AA	Verdier, et al., "Binding Sites of Amyloid $\beta$ -Peptide in Cell Plasma Membrane and Implications for Alzheimer's Disease", Curr. Prot. Peptide Science, Vol. 5, pp. 19-31 (2004)
8AB	Verdier, et al., "Amyloid $\beta$ -Peptide Interactions with Neuronal and Glial Cell Plasma Membrane: Binding Sites and Implications for Alzheimer's Disease", J. Peptide Science, Vol. 10, pp. 229-248 (2004)
8AC	Westover, et al., "The Enantiomer of Cholesterol", J. Membrane Biology, Vol. 202, pp. 61-72 (2004)
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8AE	Woodgett, et al., "Substrate specificity of protein kinase C", Eur. J Biochem., Vol. 161(1), pp. 177-84 (1986)
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8AH	
8AI	
8AJ	
8AK	
8AL	
8AM	
8AN	

**EXAMINER****DATE CONSIDERED**

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.